



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

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Secretary of Natural Resources

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Regional Director

Permit No: VA0004103
Effective Date: November 14, 2012
Modification Date: July 24, 2013
Expiration Date: November 13, 2017

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND

THE VIRGINIA STATE WATER CONTROL LAW

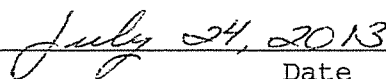
In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this cover page, and Parts I and II of this permit, as set forth herein.

Owner: Virginia Electric and Power Company
Facility Name: Dominion - Yorktown Power Station
City: Yorktown
County: York
Facility Location: 1600 Waterview Road, Yorktown, VA 23692

The owner is authorized to discharge to the following receiving stream:

Stream: See Attachment I
River Basin:
River Subbasin:
Section:
Class:
Special Standards:


Maria R. Nold


Date

ATTACHMENT I

<u>Outfall No(s).</u>	<u>Receiving Stream</u>
001, 002, 005, 006, 007, 008, 014, 015, 016, Internal Outfalls: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 202, 203, 204, 205)	York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a
009 and 010	Unnamed tributary to York River Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a
003, 004 and 017	Unnamed tributary to Chisman Creek Basin: Chesapeake Bay, Atlantic Ocean and Small Coastal Subbasin: N/A Section: 2d Class: III Special Standards: None
012 and 013	Unnamed tributary to Wormley Creek Basin: York River Subbasin: N/A Section: 1 Class: II Special Standards: a

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 001 (Condenser cooling water - outfall pumps discharge; internal outfalls 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 112).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS			DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Calculated [d]
Total Residual Chlorine (mg/l) [a]	0.021	NA	NA	0.026	2/Month	Calculated [d]
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Month	Calculated [d]
Total Nitrogen, Intake (mg/l) [e]	NL	NA	NA	NA	1/6 Months	Calculated [d]
Total Nitrogen (mg/l) [e]	NL	NA	NA	NA	1/6 Months	Calculated [d]
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]
Heat Rejection (BTU/HR) [c]	NA	NA	NA	57.41 x 10 ⁽⁸⁾	Continuous	Recorded

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

[b] See Part I.B.15. for Thermal Mixing Zone requirements.

[c] See Part I.B.14. Heat rejection is the total heat rejected for outfalls 001 and 002 at the facility.

[d] Samples shall be collected at outfall 002 and shall be calculated for outfall 001 based on these samples.

[e] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 002 (Condenser cooling water - weir discharge. Sampling Point shall be downstream of the weir just prior to discharge under Waterview Road; internal outfalls 101, 102, 103, 104, 106, 107, 108, 109, 110, 111, 112, 202, 203, 204, and 205).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS			DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type		
Flow (MGD)	NL	NA	NA	NL	1/Day	Calculated		
pH (S.U.)	NA	NA	6.0	9.0	2/Month	Grab		
Total Residual Chlorine (mg/l) [a]	0.021	NA	NA	0.026	2/Month	Grab		
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Month	Grab		
Total Nitrogen, Intake (mg/l) [d]	NL	NA	NA	NA	1/6 Months	Grab		
Total Nitrogen (mg/l) [d]	NL	NA	NA	NA	1/6 Months	Grab		
Temperature (°C)	NA	NA	NA	[b]	1/Year	[b]		
Heat Rejection (BTU/HR) [c]	NA	NA	NA	NL	Continuous	Recorded		
Total Suspended Solids (mg/l) [a]	NA	NA	NA	NL	1/Year	Grab		
Dissolved Copper (ug/l) [a]	NA	NA	NA	NL	1/Year	Grab		
Dissolved Zinc (ug/l) [a]	NA	NA	NA	NL	1/Year	Grab		

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31)

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

[b] See Part I.B.15. for Thermal Mixing Zone requirements.

[c] See Part I.B.14.

[d] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 003 and 004 (Storm water from the ash landfill sediment ponds, valved - 003 pond #1 and truck washing activities; 004 pond #2).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>		<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>		
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
pH (S.U.)	NA	NA	6.0	9.0	1/Month	Grab
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/6 Months	Grab
Total Nitrogen (mg/l) [a]	NL	NA	NA	NA	1/6 Months	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrate-Nitrogen (NO3-N) plus Nitrite-Nitrogen (NO2-N) and shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 005 (unit 1 condenser backwash); and 006 (unit 2 condenser backwash).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN BACKWASH WATER FROM UNIT 1 CONDENSER (OUTFALL 005) AND THE UNIT 2 CONDENSER (OUTFALL 006) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 007 (Intake pump(s) maintenance dewatering); 016 (Intake pump(s) leak collection pit); 017 (hydrostatic relief system under the center pond of the ash landfill); 105 (outfall pumps maintenance dewatering); 202 (outfall pumps pit sump); 203 (outfall pumps pit sump backup); 204 (outfall pumps cooling and seal water).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN DISCHARGE FROM THE DEWATERING OF THE INTAKE PUMPS (007); INTAKE PUMP(S) LEAK COLLECTION PIT (016); HYDROSTATIC RELIEF SYSTEM UNDER THE CENTER POND OF THE ASH LANDFILL (017); OUTFALL PUMPS MAINTENANCE DEWATERING (105); OUTFALL PUMPS PIT SUMP (202); OUTFALL PUMPS PIT SUMP BACKUP (203); AND OUTFALL PUMPS COOLING AND SEAL WATER (204) ONLY. NO PROCESS WASTEWATER SHALL BE DISCHARGED FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 008 and 014 (Regulated storm water runoff from an industrial activity area; 008 - unit 3 area, ash handling areas; 014 - service road for intake cooling water pump).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS [a]		
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NL	NA	NA	NL	1/Year	Estimate[b]
pH (S.U.)	NA	NA	NL	NL	1/Year	Grab
Total Phosphorus (mg/l)	2.0	NA	NA	NA	1/Year	Grab
Total Suspended Solids (mg/l) [c]	NA	NA	NA	NL	1/Year	Grab
TPH (mg/l) [c]	NA	NA	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c][d]	NA	NA	NA	NL	1/3 Months	Grab
Dissolved Zinc (ug/l) [c][d]	NA	NA	NA	NL	1/3 Months	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).
1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.

[b] Estimate of the total volume of the discharge during the storm event.

[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

[d] See Part I.D. for Storm Water Evaluation requirements.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
3. Outfalls 008 and 014 are determined to be substantially identical. Sampling shall be conducted at outfall 008 only, and the results shall be reported on the DMR's for outfalls 008 and 014.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 009 and 013 (storm water outfalls not associated with a regulated industrial activity).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 010 (storm water from a regulated industrial activity - warehouse area).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS

	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [c]	NA	NL	1/Year	Grab
TPH (mg/l) [c]	NA	NL	1/Year	Grab
Dissolved Copper (ug/l) [c]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 012 (storm water from a regulated industrial activity - area containing section of ash haul road).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS [a]	
	Minimum	Maximum	Frequency	Sample Type
Flow (MG)	NA	NL	1/Year	Estimate [b]
pH (S.U.)	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [c]	NA	NL	1/Year	Grab
TPH (mg/l) [c]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.D. (STORM WATER MANAGEMENT CONDITIONS) for additional storm water sampling and reporting requirements.
[b] Estimate of the total volume of the discharge during the storm event.
[c] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.
TPH is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015C (2007) for gasoline and diesel range organics, or by EPA SW 846 Methods 8260B (1996) and 8270D (2007). If the combination of Methods 8260B and 8270D is used, the lab must report the total of gasoline range organics, diesel range organics and polynuclear aromatic hydrocarbons.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 101 (ash ponds).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Enterococci (N/CML)	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 102 (metals cleaning basin).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS [a]		
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Measured
Total Suspended Solids (mg/l)	30	NA	NA	100	1/Month	Grab
Total Suspended Solids (lbs/day)	175	NA	NA	584	1/Month	Grab
Oil and Grease (mg/l)	15	NA	NA	20	1/Month	Grab
Oil and Grease (lbs/day)	88	NA	NA	117	1/Month	Grab
Total Copper (ug/l)	1000	NA	NA	1000	1/Month	Grab
Total Copper (lbs/day)	6	NA	NA	6	1/Month	Grab
Total Iron (ug/l)	1000	NA	NA	1000	1/Month	Grab
Total Iron (lbs/day)	6	NA	NA	6	1/Month	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] Unless otherwise approved, the sample shall be collected at the point where the recirculation line discharges into the lime mixing basin. No wastewater shall be added to the basin after the sample is collected prior to the discharge for the sample period.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 103 (storm water from a regulated industrial activity, coal handling areas, switchyard, and coal pile runoff).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NL	1/6 Months	Estimate
Total Suspended Solids (mg/l) [a]	NA	50	1/6 Months	Grab
Dissolved Copper (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Nickel (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Arsenic (ug/l) [b]	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l) [b]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required
NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30); 2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.B.12. for Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm.

[b] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 104 (coal fly ash leachate tank).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NA	NL	1/Month	Estimate
Dissolved Copper (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab
Dissolved Zinc (ug/l)[a]	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Parts I.B.5. and I.B.6. for quantification levels and reporting requirements, respectively.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 015 (storm water outfalls associated with a regulated industrial activity).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. NO MONITORING OR REPORTING IS REQUIRED.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall(s): 111 (intake screen wash).

Such discharges shall be limited and monitored by the permittee as specified below:

THIS OUTFALL SHALL CONTAIN DISCHARGE FROM THE WASHING OF INTAKE SCREENS ONLY. NO OTHER WASTEWATER SHALL BE DISCHARGED FROM THIS OUTFALL. NO MONITORING OR REPORTING IS REQUIRED. SEE PART I.B.9. FOR ADDITIONAL REQUIREMENTS.

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

2. Licensed Operator Requirement

The permittee shall employ or contract at least one Class III licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the State Water Control Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Tidewater Regional Office in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

3. Operations & Maintenance (O&M) Manual Requirements

The permittee shall review the existing O&M Manual and notify the DEQ Regional Office in writing, that it is still accurate and complete. If the O&M Manual is no longer accurate and complete, a revised O&M Manual shall be submitted for approval to the DEQ Regional Office. The permittee shall maintain an accurate, approved O&M Manual for the treatment works and operate the treatment works in accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Treatment works design and operation, routine preventative maintenance of the units within the treatment system, critical spare parts inventory and record keeping;
- b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
- c. Techniques to be employed in the collection, preservation and analysis of effluent samples.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of this permit. Noncompliance with the O&M manual shall be deemed a violation of the permit.

Letter/Revised Manual Due: No later than 120 days from the effective date of the permit.

4. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) One hundred micrograms per liter (100 ug/l);
- (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
- (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
- (4) The level established by the State Water Control Board.

- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) Five hundred micrograms per liter (500 ug/l);
- (2) One milligram per liter (1 mg/l) for antimony;
- (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
- (4) The level established by the State Water Control Board.

5. Quantification Levels Under Part I.A.

- a. The maximum quantification levels (QL) shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
TSS	1.0 mg/l
Arsenic	55 ug/l
Chlorine	0.1 mg/l
Copper	7.2 ug/l
Nickel	60 ug/l
Zinc	52 ug/l
TPH	5.0 mg/l

- b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in I.B.5.a above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

6. Compliance Reporting Under Part I.A.

- a. Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.B.5.a shall be determined as follows: All data below the quantification level (QL) listed in Part I.A above shall be treated as zero. All data equal to or above the QL listed in Part I.A above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL, then the average shall be reported as <QL.
- b. Daily Maximum (industrials) -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.B.5. shall be determined as follows: All data below the quantification level (QL) listed in Part I.B.5. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as <QL.
- c. Any single datum required shall be reported as "<QL" if it is less than the QL listed in Part I.B.5. above. Otherwise, the numerical value shall be reported.
- d. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any

single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers, with the exception that loading limits are expressed as whole numbers.

- e. The permittee shall report at least the same number of significant figures as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

7. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

8. Cooling Water and Boiler Additives

- a. If at any time during the life of this permit, the permittee decides to treat any non-contact cooling water unit(s) and/or boiler system(s) with chemical additives [other than those additives currently in use and on file with the DEQ Tidewater Regional Office], the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall notify the DEQ Tidewater Regional Office, in writing, of the following:

- (1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each proposed additive;
 - (2) Schedule of additive usage; and,
 - (3) Wastewater treatment and/or retention to be provided during the use of additives.
- b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be

modified or, alternatively, revoked and reissued to include appropriate limitations or conditions.

9. Screen Washing

Screen cleanings must be performed using water only, no detergents, solvents or cleaners. All material removed from the screens shall be collected by manual cleaning to prevent materials from entering the discharge point to the outfall. Proper structural and nonstructural BMP's must be employed to prevent solids or other materials from discharging through the outfall.

10. Section 316(b) Phase II Requirements

As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

11. Poly Chlorinated Biphenyl (PCB) Compounds

There shall be no discharge of PCB compounds such as those commonly used for transformer fluid. Compliance with this requirement will be determined using EPA test method 608 (as referenced in 40 CFR Part 136).

12. Overflow of Untreated Coal Pile Runoff from a 10-Year/24-Hour Storm - Outfall 103

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which results from a 10-year/24-hour rainfall event shall not be subject to the total suspended solids limitation of 50 mg/l maximum concentration for outfall 103, at any time.

13. Collected Debris for Trash Intake Racks

Debris collected on intake trash racks shall not be returned to the receiving stream.

14. Weir Discharge

During unit 3 operations, the permittee may discharge a portion (less than the capacity of one discharge pump) of the condenser cooling water over the discharge canal weir rather than through the diffuser. This will serve to balance flows (intake vs. discharge) in the condenser cooling water system. Virginia Power will include on the monthly Discharge

Monitoring Report for outfall 002 the maximum hourly heat rejected (BTU/hr) over the weir during the month. Total heat rejection for the facility shall be reported as one figure for outfall 001. During times when only unit 1 and/or unit 2 are operating this restriction does not apply.

15. Mixing Zone Requirements

The permittee shall comply with State Water Quality Standards outside the approved thermal mixing zone. For the purposes of this permit, the approved mixing zone is defined as that portion of the York River extending between the Coast Guard Terminal Station pier (37° 13' 23" N and 76° 29' 0" W) and the Oil Terminal pier (37° 13' 20" N; Longitude 76° 25' 15" W), bounded on the south by the shoreline, and on the north by an imaginary line extending between the outboard tips of the two piers. A map showing the approved mixing zone is incorporated in this permit. See Attachment B.

Monitoring of this mixing zone shall take place once per year during the month of January or July. The monitoring requirements shall consist of a minimum of two temperature plots, one upstream of the diffuser and one downstream, performed at slack before ebb or slack before flood tide. The excess temperature plots will show three degree Celsius isotherms and will be taken as near to full plant operating conditions as reasonably possible.

Results of the mixing zone survey shall be submitted to DEQ by April 30 for surveys conducted in January and by October 31 for surveys conducted in July of each year.

16. Total Residual Chlorine Discharge Duration

Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the permittee can demonstrate to the DEQ that the units in a particular location cannot operate at or below this level of chlorination.

C. TOXICS MANAGEMENT PROGRAM (TMP)

1. Biological Monitoring for outfalls 002 and 004

- a. In accordance with the schedule in C.2. below, the permittee shall conduct annual toxicity tests for the duration of the permit.

The permittee shall collect a grab sample of final effluent from outfall 002 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. Annual acute and chronic tests shall be conducted for outfall 002 using:

48 Hour Static Acute test using Americamysis bahia

Chronic Static Renewal 7-day Survival and Growth Test with Americamysis bahia

The permittee shall collect a grab sample of final effluent from outfall 004 in accordance with the sampling methodology in Part I.A. of this permit. The grab sample for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit. An annual chronic test shall be conducted for outfall 004. The chronic test to use is:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using Ceriodaphnia dubia

- b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50} . Express the results as TU_a (Acute Toxic Units) by dividing $100/LC_{50}$ for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and growth or reproduction. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing $100/NOEC$ for reporting. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.
- d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- e. The test dilutions shall be able to determine compliance with the following endpoints:
 - (1) Acute LC_{50} of 100% equivalent to a TU_a of 1.0
 - (2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

2. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	Conduct first annual TMP test for outfalls 002 using <u>Americamysis bahia</u> and for 004 using <u>Ceriodaphnia dubia</u>	By December 31, 2013
(b)	Submit results of all biological tests	Within 60 days of the sample date and no later than January 10, 2014
(c)	Conduct subsequent annual TMP tests for outfalls 002 and 004	By December 31, 2014, 2015, and 2016
(d)	Submit subsequent annual biological tests	Within 60 days of the sample date and no later than January 10, 2015, 2016 and 2017

3. Biological Monitoring for Outfall 003

- a. In accordance with the schedule in C.4.below, the permittee shall conduct semi-annual toxicity tests for the duration of the permit.

- (1) The permittee shall collect a grab sample of final effluent for acute tests from outfall 003 in the same manner as samples collected for Part 1.A of this permit. The grab samples for toxicity testing shall be taken at the same time as the monitoring for the outfall in Part 1.A. of this permit.
- (2) Chronic testing shall be required when the discharge is continuous for 8 hours or more a day for three consecutive days OR when the discharge occurs for four consecutive days regardless of the amount/time of discharge. The permittee shall submit monthly operational logs documenting days and times of discharge with the toxicity results.

If required, the permittee shall collect 3 grab samples over a 24 hour period for chronic tests from outfall 003 in accordance with the sampling methodology in Part I.A. of this permit.

Semi-annual acute and chronic (if required) tests shall be conducted for outfall 003 using:

48 Hour Static Acute test using Ceriodaphnia dubia

Chronic 3-Brood Static Renewal Survival and Reproduction Test using Ceriodaphnia dubia

- b. The acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50} . Express the results as TU_a (Acute Toxic Units) by dividing $100/LC_{50}$ for reporting.

The chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable, and a retest will have to be performed. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing $100/NOEC$ for reporting. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- c. In the event that sampling of any of the outfalls is not possible due to the absence of effluent flow during a particular testing period, the permittee shall perform a make-up sample during the next testing period.
- d. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- e. The test dilutions shall be able to determine compliance with the following endpoints:
 - (1) Acute LC₅₀ of 100% equivalent to a TU_a of 1.0
 - (2) Chronic NOEC of 100% equivalent to a TU_c of 1.0

4. Reporting Schedule

The permittee shall report the results and supply **one** complete copy of the toxicity test reports to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and the outfall 003 operational log. **Attachment A** must be submitted with each complete report. All data shall be submitted within 60 days of the sample date.

(a)	Conduct first semi-annual TMP tests for outfall 003 using <u>Ceriodaphnia dubia</u>	By June 30, 2013
(b)	Submit results of the biological tests	Within 60 days of the sample date and no later than July 10, 2013
(c)	Conduct subsequent semi-annual TMP tests for outfalls 003 using <u>Ceriodaphnia dubia</u>	By December 31 and June 30 each year
(d)	Submit subsequent semi-annual biological tests	Within 60 days of the sample date and no later than January 10 and July 10 of each year

D. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology for Specific Outfalls 008, 010, 012, and 014

The following shall be required when obtaining samples required by Part I.A. of this permit:

- a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:

- (1) Sampling at low tide and/or
- (2) Sampling at a representative point which has been demonstrated to be free of tidal influences

- b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ Tidewater Regional Office with the DMR for the month following the period in which samples were to be collected.

2. Storm Water Management Evaluation (Outfalls 008 and 014)

The Storm Water Pollution Prevention Plan (SWP3), which is to be developed and maintained in accordance with Part I.D.4 of this permit, shall have a goal of reducing pollutants discharged at all the regulated storm water outfalls.

a. Pollutant Specific Screening

The goal shall place emphasis on reducing, to the maximum extent practicable, the following screening criteria parameters in the outfalls noted below.

OUTFALL NO.	POLLUTANTS
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008, 014	Dissolved copper and dissolved zinc
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(Outfalls 008 and 014 are considered substantially identical; sampling shall be in accordance with Part I.A. for these outfalls)

b. Toxicity Screening

The permittee shall conduct **annual acute toxicity tests** on outfall 008 using grab samples of final effluent. These acute screening tests shall be 48-hour static tests using Americamysis bahia, conducted in such a manner and at sufficient dilutions for calculation of a valid LC50.

The tests shall be conducted on a calendar year basis with one copy of all results and all supporting information results and all supporting information submitted within 60 days of the date that the sample was taken and no later than January 10th of each year. Attachment A shall be submitted with the results.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3

If any of the biological screening tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

- c. Sampling methodology for the noted outfalls shall be in accordance with Part I.A. and Part I.D. of this permit. The permittee shall submit the following information with the results of the toxicity tests.

- (1) The actual or estimated effluent flow at the time of the sampling.
- (2) An estimate of the total volume of storm water discharged through each outfall during the discharge event.
- (3) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

- d. The effectiveness of the SWP3 will be evaluated via the required monitoring for all parameters listed in Part I.D.2.a. of this permit for the regulated storm water outfalls, including the screening criteria parameters and toxicity screening. Monitoring results which are either above the screening criteria values or, in the case of toxicity, result in an LC₅₀ of less than 100% effluent, will not indicate unacceptable values. However, those results will justify the need to reexamine the effectiveness of the SWP3 and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWP3 whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

By February 10th of each year, the permittee shall submit to the DEQ Tidewater Regional Office an annual report which includes the pollutant-specific and a

summary of the biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the Plan or any BMPs based on the monitoring data.

The first Stormwater Management Evaluation report is due on February 10, 2014.

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first three hours of the discharge, and the permittee shall document with the SWP3 a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWP3 the following information:

- (1) The date and duration (in hours) of the storm event(s) sampled;
- (2) The rainfall measurements or estimates (in inches) of the storm event which generated the sampled discharge; and
- (3) The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

In addition, the permittee shall maintain a monthly log documenting the amount of rainfall received at this facility on a daily basis. This information shall be retained on site with the SWP3.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Discharge

When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes substantially identical effluents are discharged, and the DEQ Tidewater Regional Office has approved them as such, the permittee may test the effluent of one of such outfalls and report that the quantitative data also apply to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [(i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent))] shall be provided in the plan.

e. Quarterly Visual Examination of Storm Water Quality (008, 010, 012 and 014)

The permittee must perform and document a quarterly visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examinations(s) must be made at least once in each of the following three-month periods: January through March, April through June,

July through September, and October through December. The visual examination must be conducted in a well lit area. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part I K of this permit.

- (1) Visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed three hours) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples. All samples (except snowmelt samples) must be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), and that occurs at least 72 hours from the previously measurable storm event. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term. If no qualifying storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no qualifying storm event occurred during daylight hours that resulted in storm water runoff during that quarter. The documentation must be signed and certified in accordance with Part II.K.
- (2) Visual examination reports must be maintained onsite with the SWP3. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution),

and probable sources of any observed storm water contamination.

- (3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the SWP3 a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)) shall be provided in the plan.
- (4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

f. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable SWP3 for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or §62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

- (1) The permittee is required to notify the Department in accordance with the requirements of Part II.G. of this permit as soon as he or she has knowledge of the discharge;
- (2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
- (3) The storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

g. Allowable Non-Storm Water Discharges

- (1). The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with Part g.(2), below.
 - (a) Discharges from fire fighting activities;
 - (b) Fire hydrant flushings;
 - (c) Potable water including water line flushings;
 - (d) Uncontaminated air conditioning or compressor condensate;
 - (e) Irrigation drainage;
 - (f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions;
 - (g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
 - (h) Routine external building wash down which does not use detergents;
 - (i) Uncontaminated ground water, river water or spring water;
 - (j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;
 - (k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains);

- (1) Incidental spills of demineralized water from the reverse osmosis system or temporary demineralization trailer - shall not go directly to external stormwater outfalls.
 - (2). For all regularly-occurring discharges listed in g.(1) above that occur in industrial areas, the Storm Water Pollution Prevention Plan must include:
 - (a) Identification of each allowable non-storm water source;
 - (b) The location where the non-storm water is likely to be discharged; and
 - (c) Descriptions of any BMPs that are being used for each source.
 - (3). If mist blown from cooling towers is included as one of the allowable non-storm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling tower, and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.
4. Storm Water Pollution Prevention Plan (SWP3)

A storm water pollution prevention plan (SWP3) shall be developed for the facility. The SWP3 shall be prepared in accordance with good engineering practices. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the SWP3 shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee must implement the provisions of the SWP3 as a condition of this permit.

The SWP3 requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWP3 requirements of this section. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to

occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the SWP3 become enforceable under this permit.

a. Deadlines for SWP3 Preparation and Compliance
Existing Facilities

The SWP3 which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with sections b., c., d. and e. below.

(1) Measures That Require Construction

In cases where construction is necessary to implement measures required by the SWP3, the SWP3 shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of the permit. Where a construction compliance schedule is included in the SWP3, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Signature and SWP3 Review

(1) Signature/Location

The SWP3 shall be signed in accordance with Part II.K. of this permit and be retained onsite at the facility which generates the storm water discharge in accordance with Part II.B. of this permit. For inactive facilities, the SWP3 may be kept at the nearest office of the permittee.

(2) Availability

The permittee shall make the SWP3, annual site compliance inspection report, or other information available to the DEQ upon request.

(3) Required Modifications

The Tidewater Regional Office may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of the permit. Such notification shall identify those provisions of the permit which are not being met by the SWP3, and identify which provisions of the plan

require modifications in order to meet the minimum requirements of this permit. Within 60 days of such notification, the permittee shall make the required changes to the SWP3 and shall submit to the DEQ Tidewater Regional Office a written certification that the requested changes have been made.

c. Keeping SWP3s Current

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the potential for the discharge of pollutants to surface waters of the State or if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under section d. below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review the existing SWP3 and make appropriate changes. Amendments to the plan may be reviewed by the Department in the same manner as noted in section b. above.

d. Contents of SWP3

The contents of the SWP3 shall comply with the requirements listed below and those in Part I.D.5. (Facility-specific Storm Water Conditions) of this permit; these requirements are cumulative. The SWP3 shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The SWP3 shall identify a specific individual or individuals within the facility organization as members of a storm water pollution prevention team that are responsible for developing the SWP3 and assisting the facility or plant manager in its implementation, maintenance, and revision. The SWP3 shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's SWP3.

(2) Description of Potential Pollutant Sources

The SWP3 shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The SWP3 shall

identify all activities and significant materials which may potentially be significant pollutant sources. The SWP3 shall include, at a minimum:

(a) Drainage

- i. A site map indicating an outline of the portions of the drainage area of each storm water outfall within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under section (2)(c) below have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes and wastewaters; locations used for the treatment, filtration or storage of water supplies; liquid storage tanks; processing areas; and, storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of these outfalls.
- ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in the storm water discharges. Factors to consider include: the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and, history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.

(b) Inventory of Exposed Materials

An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the effective date of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the effective date of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

(c) Spills and Leaks

A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.

(d) Sampling Data

A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.

(e) Risk Identification and Summary of Potential Pollutant Sources

A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and, on-site waste disposal practices and wastewater treatment activities

to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

(3) Measures and Controls

The permittee shall develop a description of storm water management controls appropriate for the facility and implement these controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping

Good housekeeping requires the clean and orderly maintenance of areas which may contribute pollutants to storm water discharges. The SWP3 shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(b) Preventive Maintenance

A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges of pollutants to surface waters; and, appropriate maintenance of such equipment and systems.

(c) Spill Prevention and Response Procedures

Areas where potential spills may occur which can contribute pollutants to storm water discharges, and their accompanying drainage

points shall be identified clearly in the SWP3. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the SWP3 and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to the appropriate personnel.

(d) Inspections

In addition to or as part of the comprehensive site compliance evaluation required under section d.(4) below, qualified facility personnel who are familiar with the industrial activity, the Best Management Practices (BMPs) and the SWP3 shall be identified to inspect designated equipment and areas of the facility at appropriate intervals. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the pollution prevention plan.

(e) Employee Training

Employee training programs shall inform personnel responsible for implementing activities identified in the SWP3 or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The SWP3 shall identify periodic dates for such training.

(f) Recordkeeping and Internal Reporting Procedures

A description of incidents such as spills, or other discharges, along with other

information describing the quality and quantity of storm water discharges shall be included in the SWP3. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

(g) Sediment and Erosion Control

The SWP3 shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

(h) Management of Runoff

The SWP3 shall contain a narrative consideration of the appropriateness of traditional storm water management practices [practices other than those which control the generation or source(s) of pollutants] used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The SWP3 shall provide for the implementation and maintenance of measures that the permittee determines to be reasonable and appropriate. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices; wet detention/retention devices; or, other equivalent measures.

(4) Comprehensive Site Compliance Evaluation

Qualified facility personnel who are familiar with the industrial activity, the BMPs and the SWP3 shall conduct site compliance evaluations at appropriate intervals specified in the SWP3, but, in no case less than once a year during the permit term. Such evaluations shall include the following.

- (a) Areas contributing to a storm water discharge associated with industrial activity, such as material storage, handling and disposal activities, shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the SWP3 shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the SWP3, such as spill response equipment, shall be made.
- (b) Based on the results of the evaluation, the description of potential pollutant sources identified in the SWP3 in accordance with section d.(2) above and pollution prevention measures and controls identified in the SWP3 in accordance with section d.(3) above shall be revised as appropriate within 30 days of such evaluation and shall provide for implementation of any changes to the SWP3 in a timely manner, but in no case more than 60 days after the evaluation.
- (c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in accordance with section (4)(b) above shall be made and retained as part of the SWP3 for at least three years from the date of the evaluation. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWP3 and this permit. The report shall be signed in accordance with Part II.K. of this permit.
- (d) Where compliance evaluation schedules overlap with inspections required under section d.(3)(d), the compliance evaluation may be conducted in place of one such inspection.

(e) Requirements for Salt Storage

Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to surface waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to surface waters of the State.

5. Facility-specific Storm Water Conditions

a. Good housekeeping measures.

(1) Fugitive dust emissions.

The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles.

The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

- (a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
- (b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas.

The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

- (a) Use of containment curbs in unloading areas;
- (b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and
- (c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas.

The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

- (a) Use of containment curbs at chemical loading/unloading areas to contain spills;
- (b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and
- (c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas.

The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runoff; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):

- (a) Use of protective guards around tanks;
- (b) Use of containment curbs;
- (c) Use of spill and overflow protection ; and
- (d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures.

The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs

deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards.

The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles.

All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas.

The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

(a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and

(b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites.

The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities.

For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P of 9 VAC 25-151-10 et seq.

(15) Material storage areas.

The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The

permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runoff may be minimized by constructing an enclosure or building a berm around the area.

(16) Comprehensive site compliance evaluation.

As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records.

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved

litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information.

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges.

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges.

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and

- c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (757) 518-2000 (voice), and online <http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/PollutionReportingForm.aspx>.

For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes.

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal

practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements.

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to Authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit

noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit.

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law.

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges.

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.
3. Prohibition of bypass.
- a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II U 2.
 - b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

- 1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
- 2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;

- b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II I; and
 - d. The permittee complied with any remedial measures required under Part II S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry.

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions.

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability.

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ATTACHMENT A
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
TMP SUBMITTAL COVER SHEET

This form shall be completed for, and submitted with, each report of toxicity testing.

VPDES PERMIT NUMBER: VA0004103

FACILITY NAME: Virginia Power-Yorktown

FACILITY LOCATION: 1600 Waterview Road, Yorktown VA 23692

THIS REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS (ES)
	COMPLETE REPORT OF TOXICITY TESTING

OUTFALL NUMBER (circle one): 002 003 004 008

REPORTING PERIOD (ex: 2013 Annual, 1st Semi-Annual 2013): _____

SAMPLE TYPE (circle one): Stormwater Wastewater

WASTEWATER SOURCE(S) (if process wastewater, provide a brief source description):

SAMPLE EVENT INFORMATION (as applicable):

Sample Date and Time of Collection: _____

Time discharge began: _____

Storm event measurement (inches): _____

Time between sampling and
last measurable storm event (hours): _____

ADDITIONAL INFORMATION:

If this sample is a **make-up** sample or a **retest**, indicate which category of test and the reporting period this submittal applies to:

Report Type: (i.e., makeup, retest, etc.) _____

Reporting Period: _____

If the required TMP sample(s) were not collected provide a reason/rationale:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Signature, printed name and title of Principal Officer or Authorized Agent / Date

Permit No. 226004103

F O R

Attachment 3

